Rev. 10/14/2003

09/960,218

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## **IN THE SPECIFICATION:**

Please amend the Specification by replacing the paragraphs with the amended paragraphs as shown below. Changes to replacement, amended paragraphs below are indicated by strikethrough and underlining.

BSH 9-5-07

Please replace the paragraph beginning on page 9 at line with the following amended paragraph.

A diagram illustrating an ROI filter 300 is provided in FIG. 3. The shaded area 301 (e.g., an ellipse) bounded by the boundary 303 indicates the region in which path information is retained. All paths or segments of paths that lie outside the shaded area 301 bounded by the boundary 303 are removed when the paths are first read from the consolidated event file 230.

3SH 9-5-07

Please replace the paragraph beginning on page 16 at line with the following amended paragraph.

Referring to FIG. 6, the end point 601 of Path1 (602) and the start point 603 of Path 2 (604) fall within the an acceptable distance, as denoted by the time-space bubble 605 in this figure. If (T2-T2) < Max Time (T2-T1) < Max Time, then the two paths can be linked.

BSH 95-07

Please replace the paragraph beginning on page 16 at line with the following amended paragraph.

From probability theory, it is known that if we have N independent and identically distributed random variables with mean  $\mu$  and a standard deviation  $\sigma$ , its average will have a mean  $\mu$  as well, but its standard deviation will be reduced to  $\sigma/\text{sqrt}(N)$ . Although this concept cannot be applied directly to our calculations since the system is dealing with maximum errors instead of standard deviations and we do not have iid id variables, intuition tells us that the errors will be reduced in a similar form in which the standard deviation is reduced, in general, unless the maximum possible error happen happens to occur in each of our terms, something very unlikely.